

Abstract

A high Cr ferritic heat-resistant steel (Cr content of 15 mass% or less), which, at least a region 10 μm in depth as measured from the surface has a worked texture comprising elongated ferritic grains or a fine crystal grain texture comprising ferritic grains of 3 μm or less in diameter, and has a protective coating film on the surface; it is a high Cr ferritic heat-resistant steel improved in oxidation resistance without causing drop in high temperature strength or in toughness.